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RAW SEQUENCE LISTING DATE: 03/04/2002 PATENT APPLICATION: US/10/077,438 TIME: 14:44:16

Input Set : A:\A080pct.txt

4 <110 - APPLICANT: MacKay, Fabienne

Browning, Jeffrey Ambrose, Christine

5

Output Set: N:\CRF3\03042002\J077438.raw

```
Ischopp, Jurg
              Schneider, Pascal
              Thompson, Jeffrey
     10
              Biogen, Inc.
     11
              Apotech RaD S.A.
     13 <120 - TITLE OF INVENTION: Baff Receptor (BCMA), An
              Immunoregulatory Agent
     16 < 130 + FILE F.EFERENCE: A080PCT
C--> 18 <140 > CURRENT APPLICATION NUMBER: US/10/077,438
C--> 19 <141> CURRENT FILING DATE: 2002-02-18
     21 - (150 - PRIOR APPLICATION NUMBER: 60/149,378
     22 - 151 - PRIOR FILING DATE: 1999-08-17
     24 -: 150 - PRIOR APPLICATION NUMBER: 60/181,684
     25 - 151 - PRIOR FILING DATE: 2000-02-11
     27 -: 150 - PFIOR APPLICATION NUMBER: 60/183,536
     28 :151 - PRIOR FILING DATE: 2000-02-18
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     35 - 1211 - LENGTH: 184
     36 -: 212: TYPE: PRT
     37 <213> OFGANISM: homo sapien
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     4.1. 1
                         5
                                              10
     42 Leu Leu His Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Ihr
     43
                     20
                                          25
                                                               30
     44 Pro Pro Leu Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser
     15
                3.5
                                      40
                                                           45
     46 Val Lys Gly Thr Asn Ala Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu
                                 55
     48 Ile Ile Ser Leu Ala Val Phe Val Leu Met Phe Leu Leu Arg Lys Ile
                             70
                                                  75
     50 Ser Ser Glu Pro Leu Lys Asp Glu Phe Lys Asn Thr Gly Ser Gly Leu
                         85
                                              90
     52 Leu Gly Met Ala Asn Ile Asp Leu Glu Lys Ser Arg Thr Gly Asp Glu
     E_j = \frac{1}{2}
                    100
                                          105
                                                               110
     54 lle lle Leu Pro Arg Gly Leu Glu Tyr Thr Val Glu Glu Cys Thr Cys
     C, C,
        115
                                     120
     56 Glu Asp Cys Ile Lys Ser Lys Pro Lys Val Asp Ser Asp His Cys Phe
```

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57 130 135 140	
58 Pro Leu Pro Ala Met Glu Glu Gly Ala Thr Ile Leu Val Thr Thr Lys	
59 145 150 155 160	
6) Thr Asn Asp Tyr Cys Lys Ser Leu Pro Ala Ala Leu Ser Ala Thr Glu	
165 170 175	
#2 Ile Blu Lys Ser Ile Ser Ala Arg	
nd 180	
გნ <210 + SEQ ID NO: 2	
nd <211 + LENGTH: 552	
n7 <212 + TYPE: DNA	
68 <213 · ORGANISM: homo sapien	
T0 <400 + SEQUENCE: 2	
"l atgitigoaga tygotigggoa gigotoocaa aatgaatatt tigacagitti gitigoatgot	60
72 tgeatacett greaactteg atgitettet aatacteete etetaacatg teaggitatt	120
73 ytaangcaag tgtgaccaat toagtgaaag gaacgaatgo gattototgg acctgtttgg	180
74 yactyagott aataatttot tiggoagiit togigotaat giittigota aggaagataa	240
75 yototgaaco attaaaggac gagtttaaaa acacaggato aggtotootg ggcatggota	300
Th acattgacot ggaaaagago aggactggtg atgaaattat totoogagag gootogagta	360
TT caegatggaa gaatgcaeet gtgaagaetg cateaagage aaacegaagg tegaetetga	420
T8 coattgettt deacteddag etatggagga aggegeaace attetgteac cangaaaacg	480
Ty aatgactatt gcaagageet geeagetget tigagigeta eggagataga gaaateaatt	540
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85 < 211 + LENGTH: 207	
84 - (212 - TYPE: PRT	
85 <213 + ORGANISM: homo sapien	
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87 <400 · SEQUENCE: 3 88 Met Asp Thr Leu Leu Trp Val Leu Leu Leu Trp Val Pro Gly Ser	
87 < 400 · SEQUENCE: 3 88 Met Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro Gly Ser 89 1 5 10 15	
87 < 400 + SEQUENCE: 3 88 Met Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro Gly Ser 89 1 5 10 15 90 Thr Gly Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe	
87 < 400 + SEQUENCE: 3 88 Met Asp Thr Leu Leu Leu Trp Val Leu Leu Trp Val Pro Gly Ser 80 1 5 10 15 90 Thr Gly Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe 91 20 25 30	
87 <400 + SEQUENCE: 3 88 Met Asp Thr Leu Leu Leu Trp Val Leu Leu Trp Val Pro Gly Ser 80 1 5 10 15 90 Thr Gly Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe 91 20 25 30 92 Asp Ser Leu Asp Val Thr Met Leu Gln Met Ala Gly Gln Cys Ser Gln	
87 < 4400 + SEQUENCE: 3 88 Met Asp Thr Leu Leu Leu Trp Val Leu Leu Trp Val Pro Gly Ser 89 1 5 10 15 90 Thr Gly Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe 91 20 25 30 92 Asp Ser Leu Asp Val Thr Met Leu Gln Met Ala Gly Gln Cys Ser Gln 93 35 40 45	
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87 < 4400 + SEQUENCE: 3 88 Met Asp Thr Leu Leu Leu Trp Val Leu Leu Trp Val Pro Gly Ser 89 1 5 10 15 90 Thr Gly Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe 91 20 25 30 92 Asp Ser Leu Asp Val Thr Met Leu Gln Met Ala Gly Gln Cys Ser Gln 93 35 40 45 94 Asn Glu Tyr Phe Asp Ser Leu Leu His Ala Cys Ile Pro Cys Gln Leu 95 50 55 66	
87	
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87 (400 + SEQUENCE: 3 88 Met Asp Thr Leu Leu Leu Trp Val Leu Leu Trp Val Pro Gly Ser 89 1 5 10 15 90 Thr Gly Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe 91 20 25 30 92 Asp Ser Leu Asp Val Thr Met Leu Gln Met Ala Gly Gln Cys Ser Gln 93 35 40 45 94 Asn Glu Tyr Phe Asp Ser Leu Leu His Ala Cys Ile Pro Cys Gln Leu 95 50 55 60 16 Asg Cys Ser Ser Asn Thr Fro Fro Leu Thr Cys Leu His Alu Cys Ile 97 65 70 75 80 98 Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln 99 85 90 95 100 Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser Val Lys Gly Gln Arg Tyr 101 100 105 110 102 Cys Asn Ala Ser Val Thr Asn Ser Val Lys Gly Val Asp Lys Thr His 103 115 120 125 104 Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val 105 130 135 140	
87	
87	
87 :4400 - SEQUENCE: 3 88 Met Asp Thr Leu Leu Leu Trp Val Leu Leu Trp Val Pro Gly Ser 89 1 5 10 15 90 Thr Gly Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe 91 20 25 30 92 Asp Ser Leu Asp Val Thr Met Leu Gln Met Ala Gly Gln Cys Ser Gln 93 35 40 45 94 Asn Glu Tyr Phe Asp Ser Leu Leu His Ala Cys Ile Pro Cys Gln Leu 95 50 55 60 16 Asy Cys Ser Ser Asn Thr Tro Tro Leu Thr Cys Leu His Ala Cys Ile 97 65 70 70 75 80 98 Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Pro Leu Thr Cys Gln 99 85 90 95 100 Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser Val Lys Gly Gln Arg Tyr 101 100 105 110 102 Cys Asn Ala Ser Val Thr Asn Ser Val Lys Gly Gln Arg Tyr 104 Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val 105 130 135 140 106 Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr	

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Input Set A:\A080pct.txt Output Set N:\CRF3\03042002\J077438.raw

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1.2	Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Tyr Val Val Ser Val	
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115	<210> SEQ ID NO: 4	
	<211 · LENGTH: 540	
117	<212 - TYPE: DNA	
11개	<213 + ORGANISM: homo sapien	
120	<400 · SEQUENCE: 4	
121	atggagadag adadadtoot gitatgggig otgotgotot gggitodagg itodadiggi	6 ()
	gaogtoacga tyttgoagat ggotgggoag tyctoccaaa atgaatattt tyacagtttg	120
	ttgcatgett geatacettg teaacttega tgttetteta atacteetee tetaacatgt	180
	caqcyttatt gtaatycaag tytyaccaat tcaqtqaaag gagtcyacaa aactcacaca	240
	tgochacogt goodag acc tgaacteetg gygggacogt cagtetteet etteccecca	300
	aaadocaaqq acaccetcat qateteeeqq acceetgagg teacatgegt ggtggtggac	360
	atgamemacq aagaccetga qqteaaqtto aactqqtacq tagacqqcqt ggaqqtgcat	420
	aatgocaaga caaagooyox ggaggagcag tacaabagca ogtabogtgt ggtoagogto	480
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138		
	Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser	
140		
	Lys Ala Lys Gly Gln Pro Arg Glu Pro Gin Val Tyr Thr Leu Pro Pro	
14.		
14	Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val	
14.4	50 55 60	
14.5	Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly	
146	55 70 75 80	
147	Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp	
148	85 90 95	
14.	GLY Ser Phe Phe Lys Lys Leu Thr var Asp Lys Ser Arg Trp Glu Glu	
150	100 105 110	
	Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His	
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156	<2105 SEQ ID NO: 6	
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	<pre><213> ORGANISM: homo sapien</pre>	
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	acctgcctgg tcaaaggett ctateccage gacategeeg tggagtggga gagcaatggg	180
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1 (i ri	ototacagos	ayot dadd	at ggada	agage a	gatggcag	q actorquoqq otoottotto c aqqqquuqoqt ottotratac	240 390
		atqaqqct	ct gcaca	accac t	acacycag	a agagoototo eotgtotoco	360 369
	yggaaatga ≺210× SEQ I	D MO - 7					3 6 3
	-:211 · LENGT						
	-:212 · TYPE.						
	-0213 + ORGAN		o sapien				
	-:400 ⋅ SEQUE		•				
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1		5			10	15	
	Leu Leu His	Ala Cys	Ile Pro	-	n Leu Ar	g Gys Ser Ser Asn Thr	
179		20		2.5		3.0	
		Thr Cys	Gln Arg	-	s Asn Al	a Ser Val Thr Asn Ser	
181	35	T1 8	51. T1-	40	- T) O	45	
		Inr Asn	A1a 11e 55	Leu Ir	p inr cy	s Leu Gly Leu Ser Lei 60	
183	50 Do Do San	tou Ma		Val to	u Mat Dh	e Leu Leu Arg Lys Ile	
185		Lea Ala	70	vai re	u Mee Fin	30	
		Pro Leu	=	Glu Ph		n Thr Gly Ser Gly Leu	
187		35	-,p		90	95	
188	Leu Gly Met	Ala Asn	Ile Asp	Leu Gl	u Lys Se	r Arg Thr Gly Asp Glu	
189	•	100	•	10		110	
190	Ile Ile Leu	Pro Arg	Gly Leu	Glu Ty	r Thr Va	l Glu Glu Cys Thr Cys	
191	115			120		125	
193	Glu Asp Cys	Ile Lys		Pro Ly.	s Val As	p Ser Asp His Cys Phe	
193	130		135			140	
		Ala Met		Gly Ala		e Leu Val Thr Thr Lys	
	145	T 2	150	fan Da	15		
197	III ASH ASP	17r Cys 165	Lys ser	Leu Pro	170	a Leu Ser Ala Thr Glu 175	
	Ile Glu Lys		Ser Ala	Δra	170	1/3	
199	TIC GIG LYD	180	DCI MIG	.11.9			
	-:210 - SEQ I						
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	:212 · TYPE:						
204	$<\!(213)$ ORGAN	ISM: Hom	o Sapien				
206	-:400> SEQUE	NCE: 8					
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	-					t gttgcagatg gctgggcagt	240
		-		-	-	g catacettgt caacttegat	300 360
	•			-		g taatgcaagt gtgaccaatt ; g actgagetta ataatttett ;	420
	-		-		-	g actigation attacette : g ctotqaacca ttaaaggacg :	480
						a cattgacctg gaaaagagna	540
				•		a cacqqtqqaa qaatqcacct.	600
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PATENT APPLICATION: US/10/077,438 TIME: 14:44:17

DATE: 03/04/2002

Input Set : A:\A080pct.txt

Output Set: N:\CRF3\03042002\J077438.raw

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220	titogacteg	agcagtgcca	ctttaaaaat	cttttgtcag	aatagatqat	gtgtcagatc	84⊕
221	tctttaggat	gactgtattt	ttcagttgcc	gatacauctt	tttgtcctct	aactgtggaa	900
222	actctttatq	ttagatatat	ttctctaggt	tactgttggg	agcttaatgg	tagaaacttc	960
223	cttggtttca	tgattaaagt	ctttttttt	cctga			995

VERIFICATION SUMMARY

DAIE: 03/04/2002

PATENT APPLICATION: US/10/077,438 TIME: 14:44:18

Input Set : A:\A080pct.txt

Output Set: N:\CRF3\03042002\J077438.raw

Lila M:27) d: Current Application Number differs. Replaced Current Application Number Lila M:271 d: Current Filing Date differs. Replaced Current Filing Date